

What is claimed is:

1. An ink cartridge for use in an ink jet recording apparatus comprising:

a container body housing an ink absorbing member for absorbing ink in an ink chamber,

an ink supply port which communicates said ink chamber to a recording head;

a lid member sealing an opening portion of said container body,

a spacer inserted between said lid member and said ink absorbing member for pressing said ink absorbing member toward said ink supply port.

2. The ink cartridge for use in an ink jet recording apparatus according to claim 1, wherein an ink injecting port and an air communicating port are formed in said lid member, and through holes are formed in said spacer so as to be opposed at least to said ink injecting port.

3. The ink cartridge for use in an ink jet recording apparatus according to claim 1, wherein a plurality of said through holes is provided so as to oppose said injecting port independent of an extension direction of said spacer and so as to be symmetric with respect to each other.

4. The ink cartridge for use in an ink jet recording apparatus according to claim 1, wherein said spacer presses toward said ink

supply port at least an area where said ink absorbing member is opposed.

5. The ink cartridge for use in an ink jet recording apparatus according to claim 1, wherein said spacer is provided with a flat base at an opposite side to said lid member and with a rib extending to a longitudinal direction of said container body at an opposite side to said ink absorbing member.

6. The ink cartridge for use in an ink jet recording apparatus according to claim 1, wherein a projection engaging with said lid member is formed in said flat base at an opposite side to said lid member.

7. The ink cartridge for use in an ink jet recording apparatus according to claim 1, wherein said spacer is provided with a flat base at an opposite side to said lid member and with plural ribs extending to a longitudinal direction of said container body at an opposite side to said ink absorbing member, and said each adjacent rib is joined.

8. An ink cartridge for use in an ink jet recording apparatus according to claim 1, wherein said ribs are positioned at both sides of said container body in width direction.

9. The ink cartridge for use in an ink jet recording apparatus according to claim 1, wherein a convex portion is formed at said ink supply port, said convex portion protrudes from the bottom of said container body and has an ink flow path communicating with said ink

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an ink supply port which communicates said ink chamber to a recording head,

the internal space of said container body divided into a plurality of areas by walls, and

at least one of said areas storing ink is provided with said ink supply port.

15. The ink cartridge for use in an ink jet recording apparatus according to claim 14, wherein said container body is divided by first walls perpendicular to the ink supply needles arrangement direction so as to form a space opposed to each ink supply needle; said space is divided by second walls perpendicular to the first walls.

16. The ink cartridge for use in an ink jet recording apparatus according to claim 14, wherein said container body is divided by walls parallel to the ink supply needles arrangement direction, and areas provided with said ink supply ports are divided so as to communicate with said ink supply ports.

17. The ink cartridge for use in an ink jet recording apparatus according to claim 14, wherein the divided areas of said container body having no ink supply ports are open to outside of said container body, and said container body is installed in an air tight and gas impermeable package so as to maintain a pressure than atmospheric pressure.

18. An ink cartridge for use in an ink jet recording apparatus, comprising:

a container body having an ink absorbing member for absorbing ink in an ink chamber,

an ink supply port which communicates said ink chamber to a recording head,

a lid member sealing an opening portion of said container body, and

ribs formed in the back of the lid member so as to be opposed to said ink supply ports and to press the ink absorbing member toward said ink supply port according to height of the ink absorbing member, wherein ink volume is adjusted according to the volume of said ink absorbing member.

19. An ink cartridge for use in an ink jet recording apparatus, comprising:

a container body installed in a holder of the ink jet recording apparatus having an ink absorbing member for absorbing ink in an ink chamber,

an ink supply port which communicates said ink chamber to a recording head, and

a wall partitioning said ink chamber positioned inside of a side portion contacting with said holder.

20. An ink cartridge for use in an ink jet recording apparatus, comprising:

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23. The ink cartridge for use in an ink jet recording apparatus according to claim 20, wherein ribs protruding from the second side wall are formed at said ink chambers partitioned by the side walls of said container body.

24. The ink cartridge for use in an ink jet recording apparatus according to claim 20, wherein a protruded length of said ribs is adjusted according to the amount of ink to be stored.

25. The ink cartridge for use in an ink jet recording apparatus according to claim 20, wherein said concave portion functions to position said container body against a holder of the ink jet recording apparatus.

26. An ink cartridge for use in an ink jet recording apparatus comprising:

a container body having an ink absorbing member for absorbing ink in an ink chamber,

an ink supply port which communicates said ink chamber to a recording head, and

a lid member sealing an opening portion of said container body, wherein

a side wall of said container body protrudes to the ink chamber.

27. The ink cartridge for use in an ink jet recording apparatus according to claim 26, wherein the bottom portion of the side wall in said container body protrudes to the ink chamber.

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28. An ink cartridge for use in an ink jet recording apparatus according to claim 26, wherein said container body has a long and a short side wall; and the long side wall of said container body protrudes to the ink chamber.

29. The ink cartridge for use in an ink jet recording apparatus according to claim 26, wherein the bottom portion of said container body includes a sloping portion which protrudes to the ink chamber.

30. The ink cartridge for use in an ink jet recording apparatus according to claim 26, wherein said ink absorbing member is strongly compressed at a central area of a bottom portion of said ink chamber.

31. The ink cartridge for use in an ink jet recording apparatus according to claim 26, wherein said ink supply port communicates with a concave portion formed at a projection extending substantially to the central portion in the direction of the long side wall of said container body.

32. The ink cartridge for use in an ink jet recording apparatus according to claim 1, wherein a storage device storing information regarding ink stored amount is attached so as to be readable by a recording apparatus.

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~~33. The ink cartridge for use in an ink jet recording apparatus according to claim 14, wherein a storage device storing information regarding ink stored amount is attached so as to be readable by a recording apparatus.~~

34. The ink cartridge for use in an ink jet recording apparatus

according to claim 18, wherein a storage device storing information regarding ink stored amount is attached so as to be readable by a recording apparatus.

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35. The ink cartridge for use in an ink jet recording apparatus according to claim 19, wherein a storage device storing information regarding ink stored amount is attached so as to be readable by a recording apparatus.

36. The ink cartridge for use in an ink jet recording apparatus according to claim 20, wherein a storage device storing information regarding ink stored amount is attached so as to be readable by a recording apparatus.

37. The ink cartridge for use in an ink jet recording apparatus according to claim 26, wherein a storage device storing information regarding ink stored amount is attached so as to be readable by a recording apparatus.

38. An ink jet cartridge for use in an ink jet recording apparatus according to claim 20, wherein a width of the ink chamber is narrower than widths of the short side walls of the ink chamber.

39. An ink jet cartridge for use in an ink jet recording apparatus according to claim 20, wherein a width parallel to the short side walls of the ink chamber is wide at an opening portion of the container body and narrow at an ink supply port side of the container body.

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